

Product datasheet for RC200773

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

TGF beta induced factor 2 (TGIF2) (NM_021809) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: TGF beta induced factor 2 (TGIF2) (NM_021809) Human Tagged ORF Clone

Tag: Myc-DDK

Symbol: TGF beta induced factor 2

Mammalian Cell

Selection:

Neomycin

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)ORF Nucleotide>RC200773 ORF sequence

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA





Protein Sequence: >RC200773 protein sequence

Red=Cloning site Green=Tags(s)

MSDSDLGEDEGLLSLAGKRKRRGNLPKESVKILRDWLYLHRYNAYPSEQEKLSLSGQTNLSVLQICNWFI NARRRLLPDMLRKDGKDPNQFTISRRGGKASDVALPRGSSPSVLAVSVPAPTNVLSLSVCSMPLHSGQGE KPAAPFPRGELESPKPLVTPGSTLTLLTRAEAGSPTGGLFNTPPPTPPEQDKEDFSSFQLLVEVALQRAA EMELQKQQDPSLPLLHTPIPLVSENPQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6565 d02.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:



CTATAGGGCGGCCGC	_EcoRI GGAATTCGT	Bam CGACTGGAI	HI Kpn I	RBS CGAGGAGA	TCTGO		sus Sgfl	- : c !	TG -		
ORF	NNN	Miui Acg cg: T R			Khol C GAG E	CAG A	AA CT	c.Tag C ATC I	TCF S	A GAA E	GAG E
GAT CTG GCA GC.		ATC CTG	GAT TAC	Flag.Tag AAG GAT K D	GAC D	GAC GA	r aag K	_	Pme I TAA Stop	ACGGG	se I cagaac

^{*} The last codon before the Stop codon of the ORF

ACCN: NM_021809

ORF Size: 711 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of

reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing

variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube

containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).



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Reconstitution Method: 1. Centrifuge at 5,000xg for 5min.

2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.

3. Close the tube and incubate for 10 minutes at room temperature.

4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid

at the bottom.

5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of

shipping when stored at -20°C.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with

0.22um filter is required.

RefSeq: <u>NM 021809.7</u>

RefSeq Size: 3415 bp **RefSeq ORF:** 714 bp

 Locus ID:
 60436

 UniProt ID:
 Q9GZN2

 Cytogenetics:
 20q11.23

Protein Families: Transcription Factors

MW: 25.9 kDa

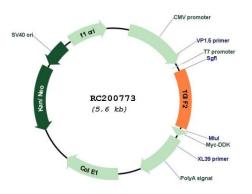
Gene Summary: The protein encoded by this gene is a DNA-binding homeobox protein and a transcriptional

repressor, which appears to repress transcription by recruiting histone deacetylases to TGF beta-responsive genes. This gene is amplified and over-expressed in some ovarian cancers. Alternative splicing results in multiple transcript variants. A related pseudogene has been identified on chromosome 1. Read-through transcription also exists between this gene and the neighboring downstream C20orf24 (chromosome 20 open reading frame 24) gene.

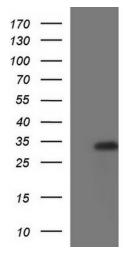
[provided by RefSeq, Dec 2010]

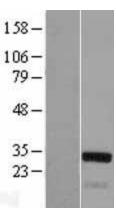


Product images:



Circular map for RC200773

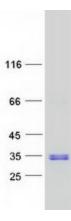




HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY TGIF2 (Cat# RC200773, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-TGIF2(Cat# [TA590467]). Positive lysates [LY411916] (100ug) and [LC411916] (20ug) can be purchased separately from OriGene.

Western blot validation of overexpression lysate (Cat# [LY411916]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200773 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).





Coomassie blue staining of purified TGIF2 protein (Cat# [TP300773]). The protein was produced from HEK293T cells transfected with TGIF2 cDNA clone (Cat# RC200773) using MegaTran 2.0 (Cat# [TT210002]).